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| FORM PTO-1449 | | Page 1 of 21 |
| <div style="position: relative; width: 150px; margin: 0 auto;"> <div style="position: absolute; top: -50px; left: 50%; transform: translate(-50%, -50%); font-size: 2em; font-weight: bold;">O I P E</div> <div style="position: absolute; top: 0; left: 0; width: 100%; text-align: center;">MAR 07 2005</div> </div> | | ATTY. DOCKET NO. 2072.0010006/LBB/SJE APPLICATION NO. 10/686,713 |
| INFORMATION DISCLOSURE STATEMENT PATENT & TRADEMARK OFFICE | | FIRST NAMED INVENTOR Hanna, M.M. FILING DATE October 17, 2003 ART UNIT 1637 |

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| YK | AA1 | 3,996,345 | 12/07/1976 | Ullman <i>et al.</i> | | | 06/30/1975 |
| ↓ | AB1 | 4,351,760 | 09/28/1982 | Khanna <i>et al.</i> | | | 09/07/1979 |
| | AC1 | 4,582,788 | 04/15/1986 | Erlach | | | 01/07/1983 |
| | AD1 | 4,683,194 | 07/28/1987 | Saiki <i>et al.</i> | | | 03/28/1985 |
| | AE1 | 4,739,044 | 04/19/1988 | Stabinsky | | | 06/13/1985 |
| | AF1 | 4,757,141 | 07/12/1988 | Fung <i>et al.</i> | | | 08/26/1985 |
| | AG1 | 4,786,600 | 11/22/1988 | Kramer <i>et al.</i> | | | 05/25/1984 |
| | AH1 | 5,130,238 | 07/14/1992 | Malek <i>et al.</i> | | | 08/23/1989 |
| | AI1 | 5,169,766 | 12/08/1992 | Schuster <i>et al.</i> | | | 06/14/1991 |
| | AJ1 | 5,399,491 | 03/21/1995 | Kacian <i>et al.</i> | | | 03/19/1992 |
| | AK1 | 5,503,979 | 04/02/1996 | Kramer <i>et al.</i> | | | 08/26/1994 |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| YK | AL1 | WO 89/01050 | 02/09/1989 | WIPO | | | Yes No |
| ↓ | AM1 | WO 03/038042 A2 | 05/08/2003 | WIPO | | | Yes No |
| | AN1 | WO 04/096997 | 11/11/2004 | WIPO | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

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| YK | AS | 1 | Antequerra, F. and Bird, A., "Number of CpG islands and genes in human and mouse," <i>Proc. Natl. Acad. Sci. USA</i> 90:11995-11999, National Academy of Sciences (1993) |
| YK | AT | 1 | Callahan, R., <i>et al.</i> , "Frequent Mutations in Breast Cancer," <i>Ann. N.Y. Acad. Sci.</i> 698:21-30, New York Academy of Sciences (1993) |

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| YK | AA2 | 5,508,178 | 04/16/1996 | Rose <i>et al.</i> | | | 02/09/1994 |
| | AB2 | 5,554,516 | 09/10/1996 | Kacian <i>et al.</i> | | | 12/02/1993 |
| | AC2 | 5,571,669 | 11/05/1996 | Lu <i>et al.</i> | | | 01/14/1993 |
| | AD2 | 5,595,891 | 01/21/1997 | Rose <i>et al.</i> | | | 07/19/1990 |
| | AE2 | 5,648,211 | 07/15/1997 | Fraiser <i>et al.</i> | | | 04/18/1994 |
| | AF2 | 5,654,142 | 08/05/1997 | Kievits <i>et al.</i> | | | 03/14/1995 |
| | AG2 | 5,679,512 | 10/21/1997 | Laney <i>et al.</i> | | | 08/20/1993 |
| | AH2 | 5,683,879 | 11/04/1997 | Laney <i>et al.</i> | | | 06/07/1995 |
| | AI2 | 5,744,308 | 04/28/1998 | Guillou-Bonnici <i>et al.</i> | | | 07/26/1995 |
| | AJ2 | 5,766,849 | 06/16/1998 | McDonough <i>et al.</i> | | | 11/28/1994 |
| | AK2 | 5,824,517 | 10/20/1998 | Cleuziat <i>et al.</i> | | | 05/16/1997 |

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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

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| YK | AS | 2 | Cheung, V.G., <i>et al.</i> , "A resource of mapped human bacterial artificial chromosome clones," <i>Genome Research</i> 9:983-993, Cold Spring Laboratory Press (1999) |
| YK | AT | 2 | Cifone, M.A. and Fidler, I.J., "Increasing metastatic potential is associated with increasing genetic instability of clones isolated from murine neoplasms," <i>Proc. Natl. Acad. Sci. USA</i> 78:6949-6952, National Academy of Sciences (1981) |

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| YK | AA3 | 5,858,801 | 10/12/1999 | Brizzolara | | | 03/13/1997 |
| | AB3 | 5,888,819 | 03/30/1999 | Goelet <i>et al.</i> | | | 03/05/1991 |
| | AC3 | 6,008,334 | 12/28/1999 | Hanna | | | 07/23/1997 |
| | AD3 | 6,107,037 | 08/22/2000 | Sousa <i>et al.</i> | | | 06/19/1998 |
| | AE3 | 6,107,039 | 08/22/2000 | Hanna | | | 10/02/1998 |
| | AF3 | 6,114,519 | 07/05/2000 | Cole <i>et al.</i> | | | 10/15/1997 |
| | AG3 | 6,251,594 | 06/26/2001 | Gonzalgo <i>et al.</i> | | | 06/09/1998 |
| | AH3 | 2002/0168641 | 11/14/2002 | Mortensen <i>et al.</i> | | | 03/09/2001 |
| | AI3 | 2003/0099950 A1 | 05/29/2003 | Hanna | | | 10/30/2001 |
| | AJ3 | 2004/0054162 A1 | 03/18/2004 | Hanna | | | 04/29/2003 |
| | AK3 | 2004/0137461 A1 | 07/15/2004 | Hanna | | | 06/23/2003 |

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| YK | AR | <u>3</u> | Costas, C., <i>et al.</i> , "RNA-protein crosslinking to AMP residues at internal positions in RNA with a new photocrosslinking ATP analog," <i>Nucleic Acids Res.</i> 28:1849-1858, Oxford University Press (May, 2000) |
| YK | AS | <u>3</u> | Daube, S.S. and von Hippel, P.H., "Functional Transcription Elongation Complexes from Synthetic RNA-DNA Bubble Duplexes," <i>Science</i> 258:1320-1324, American Association for the Advancement of Science (1992) |
| YK | AT | <u>3</u> | Dunn, J.J. and Studier, F.W., "Complete Nucleotide Sequence of Bacteriophage T7 DNA and the Locations of T7 Genetic Elements," <i>J. Mol. Biol.</i> 166:477-535, Academic Press, Inc. (1983) |

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| YK | AA4 | 2004/0234996 A1 | 11/25/2004 | Hanna | | | 06/24/2003 |
| ↓ | AB4 | 2004/0157257 A1 | 08/12/2004 | Hanna | | | 03/03/2004 |
| | AC4 | 2005/0026150 A1 | 02/03/2005 | Hanna | | | 06/27/2003 |
| | AD | | | | | | |
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| YK | AR | 4 | Esteller, M., et al., "Promoter Hypermethylation and BRCA1 Inactivation in Sporadic Breast and Ovarian Tumors," <i>J. Natl. Cancer Inst.</i> 92:564-569, Oxford University Press (April, 2000). (Retrieved from LexisNexis Academic database) |
| YK | AS | 4 | Frommer, M., et al., "A genomic sequencing protocol that yields a positive display of 5-methylcytosine residues in individual DNA strands," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:1827-1831, National Academy of Sciences (1992) |
| YK | AT | 4 | Gait, M.J., et al., "Oligoribonucleotide synthesis," in <i>Oligonucleotides and Analogues</i> , Eckstein, F., ed., Oxford University Press, Oxford, Great Britain, pp. 25-31 (1992) |

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| YK | AR | <u>5</u> | Gait, M.J., "An Introduction to Modern Methods of DNA Synthesis," in Oligonucleotide synthesis: a practical approach, Gait, M.J., ed., Oxford University Press, Oxford, Great Britain, pp.1-22 (1984) |
| YK | AS | <u>5</u> | Geider, K., et al., "An RNA transcribed from DNA at the origin of phage fd single strand to replicative form conversion," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 75:645-649, National Academy Press (1978) |
| YK | AT | <u>5</u> | Giusti, W.G. and Adriano, T., "Synthesis and Characterization of 5'-Fluorescent-dye-labeled Oligonucleotides," <i>PCR Methods Appl.</i> 2:223-227, Cold Spring Harbor Laboratory Press (1993) |

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| YK | AR | <u>6</u> | Guatelli, J.C., <i>et al.</i> , "Isothermal, in vitro amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 87:1874-1878, National Academy Press (1990) |
| YK | AS | <u>6</u> | Gupta, K.C., <i>et al.</i> , "A general method for the synthesis of 3'-sulfhydryl and phosphate group containing oligonucleotides," <i>Nucleic Acids Res.</i> 19:3019-3025, Oxford University Press (1991) |
| YK | AT | <u>6</u> | Gurevich, V.V., <i>et al.</i> , "Preparative in Vitro mRNA Synthesis Using SP6 and T7 RNA Polymerases," <i>Anal. Biochem.</i> 195:207-213, Academic Press, Inc. (1991) |

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| YK | AR | <u>1</u> | Hanna, M.M., "Photoaffinity Cross-Linking Methods for Studying RNA-Protein Interactions," <i>Methods Enzymol.</i> 180:383-409, Academic Press, Inc. (1989) |
| YK | AS | <u>1</u> | Hanna, M.M., <i>et al.</i> , "Probing the environment of nascent RNA in Escherichia coli transcription elongation complexes utilizing a new fluorescent ribonucleotide analog," <i>Nucleic Acids Res.</i> 27:1369-1376, Oxford University Press (1999) |
| YK | AT | <u>1</u> | Hanna, M.M., <i>et al.</i> , "Synthesis and characterization of a new photocrosslinking CTP analog and its use in photoaffinity labeling E.coli and T7 RNA polymerases," <i>Nucleic Acids Res.</i> 21:2073-2079, Oxford University Press (1993) |

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| YK | AR | 8 | He, B., <i>et al.</i> , "Preparation of probe-modified RNA with 5-mercapto-UTP for analysis of protein-RNA interactions," <i>Nucleic Acids Res.</i> 23:1231-1238, Oxford University Press (1995) |
| YK | AS | 8 | Herman, J.G., <i>et al.</i> , "Inactivation of the <i>CDKN2/p16/MTS1</i> gene is frequently associated with aberrant DNA methylation in all common human cancers," <i>Cancer Res.</i> 55:4525-4530, American Association for Cancer Research (1995) |
| YK | AT | 8 | Herman, J.G., <i>et al.</i> , "Incidence and functional consequences of <i>hMLH1</i> promoter hypermethylation in colorectal carcinoma," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 95:6870-6875, National Academy of Sciences (1998) |

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| YK | AR | 9 | Hori, A., <i>et al.</i> , "Frequent Replication Errors at Microsatellite Loci in Tumors of Patients with Multiple Primary Cancers," <i>Cancer Res.</i> 54:3373-3375, American Association for Cancer Research (1994) |
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| | FIRST NAMED INVENTOR Hanna, M.M. | |
| | FILING DATE October 17, 2003 | ART UNIT 1637 |

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
2072.0010006/LBB/SJEAPPLICATION NO.
10/686,713FIRST NAMED INVENTOR
Hanna, M.M.FILING DATE
October 17, 2003ART UNIT
1637**U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|----|--------------------|------|------|-------|-----------|-------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
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| | AH | | | | | | |
| | A | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|--------------------|------|---------|-------|-----------|-------------|
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|----|----|----|--|
| YK | AR | 21 | Co-pending US Application No. 10/488,971, inventor Hanna, M., filed March 9, 2004 (NOT PUBLISHED) |
| YK | AS | 21 | Co-pending US Application No. 10/976,240, inventor Hanna, M., filed October 24, 2004 (NOT PUBLISHED) |
| YK | AT | 21 | Co-pending International Application No. PCT/US2004/035740, inventor Hanna, M., filed October 29, 2004 (NOT PUBLISHED) |

EXAMINER

/Young Kim/

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